

OPERATING MANUAL Up Lift 6

Operating Manual UP Lift 6 (Translation from the original manual)



UP LIFT 6 NR: _____

OPERATING MANUAL Up Lift 6

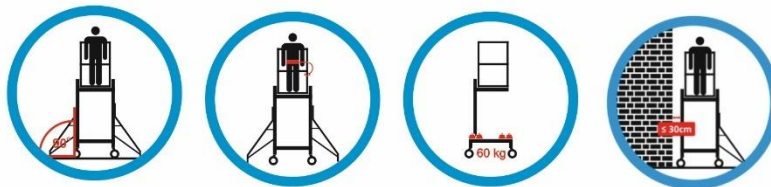
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Up
lift 6



LOCK
HARD

OPERATING MANUAL Up Lift 6

Introduction

We are pleased that you have chosen UP Lift 6 man lift, the sole manufacturer of which is Lockhard Sp. z o.o.

This operating manual is considered to be an integral part of the UP Lift 6 lift. It contains the necessary information on the assembly, correct operation and disassembly of the machine, as well as HSE and maintenance information. A complete and legible operating manual must be kept at hand in a printed version on the lift.

In order to avoid unnecessary damage and hazards, the operator/user is required to read, understand and follow this operating manual with understanding and observe it.

In addition to this operating manual, the general regulations applicable in a given country concerning environmental protection, occupational health and safety and accident prevention must be observed.



LOCKHARD Sp. z o. o. is not responsible for direct or indirect damage resulting from failure to comply with this OPERATING MANUAL at the stage of delivery, assembly and use for UP Lift 6.

1. GENERAL INFORMATION

1.1. Manufacturer:

LOCKHARD Sp. z o.o.
ul. Ostrowska 74a
63-410 Gorzyce Wielkie
Tel. +48 502 242 474
e-mail: office@lockhard.eu

1.2. Marking of the lift - a sample data plate

		Lockhard Sp. z o.o. ul. Ostrowska 74a 63-410 Gorzyce Wielkie POLAND			
According with Standard PN-EN 280					
Product:		UP Lift 6			
Product:					
Year of manufacture:		20xx	Weight:		130 kg/190 kg
Year of manufacture:			Weight:		
Safe working load:		140 kg	Voltage:		12 V DC
Safe working load:			Voltage:		
Platform dimensions:		480x690 mm	Electric actuator:		LA36-2600N
Platform dimensions:			Electric actuator:		
Lift height:		4.2 m	Serial number:		UP6021xxx
Lift height:			Serial Number:		

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1.3. Definitions

Lift Up Lift 6 - is a mobile machine designed to lift people and loads in a basket. The device consists of a base, two moving masts, a basket with controls and a drive system.

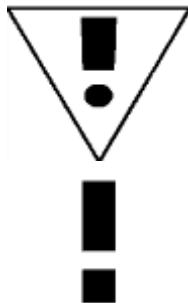
Basket - a part of the lift with automatically closed gates, used to move the operator to the desired working position.

Operator - a person, adequately trained and authorised to operate lifting devices.

Rated safe working load - the maximum permissible mass to be lifted in the basket. Rated safe working load includes the weight of the operator, tools and materials placed in the basket.

1.4. Safety symbols used in the manual

The following symbols are used to draw attention to points in this manual that contain important information or indicate hazards. When reading the operating manual, pay special attention to the points marked with these symbols.



Danger

This symbol indicates a direct threat to life and health. Failure to comply with the rules means danger to life or risk of serious injury and significant material damage.

Note

Indicates a warning against possible damage to the lift or other property in the event of improper performance of the indicated activity.

1.5. National requirements

In addition to this operating manual, read the applicable national and local statutory regulations and other regulations in force concerning work safety. The above requirements also applies to the rules of working at heights and environmental protection in a given country.

In Poland, Up Lift 6 is a machine qualified as handling equipment and the operator must have the appropriate qualifications to operate handling equipment of type IP or IIP confirmed by the Office of Technical Inspection.

Legal basis:

Regulation of the Council of Ministers of 7.12.2012 on the types of technical devices subject to technical inspection (Polish Journal of Laws of 2012, No. 0, item 1468), issued on the basis of Article 5 paragraph 2 of the Act on technical inspection.

Pursuant to the Polish Regulation of the Ministry of Economy, Labour and Social Policy of 29.10.2003 about technical conditions and technical inspection in the scope of operation of certain handling equipment. In accordance with Section 25.1, Point 6, after changing the location of the UTB, no ad-hoc operational inspections of the device with single-phase power supply are required.

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1.6. Declaration of Conformity - template

EU DECLARATION OF CONFORMITY

Manufacturer: **LOCKHARD Sp. z o. o.**
ul. Ostrowska 74A
63-410 Gorzyce Wielkie

Product: **UP Lift 6**

serial number:

This declaration of conformity is issued under the sole responsibility of the manufacturer.

I hereby declare with full responsibility that the product specified above complies with the essential HSE requirements contained in the Machinery Directive 2006/42/EC (MD) of 17.05.2006 on machines and Directive 2014/30/EU (EMC) of 26.02.2014 on the approximation of the laws of the Member States relating to electromagnetic compatibility by meeting harmonized standards:

PN-EN 280+A1:2015-11	Mobile elevating work platforms, Design calculations, Stability criteria, Construction, Safety, Examinations and tests
PN-EN 60204-1:2018-12	Safety of machinery, Electrical equipment of machines, Part 1: General requirements
PN-EN ISO 12100: 2012	Safety of machinery, General principles for design, Risk assessment and risk reduction
PN-EN 61000-6-2:2019-04	Part 6-1: General standards - The standard for endurance in residential and light industrial environments.
PN-EN 61000-6-3:2008	Part 6-3: General standards - Emission standard for residential and light industrial environments.

The EC type examination of the UP Lift 6 was carried out by the following notified body: J.S. HAMILTON Poland Sp. z o.o. NB number: 2057, 41-103 Siemianowice Śl. ul. Wyzwolenia 14, Type Examination Certificate No. JSHP/3/MD/2022

Person authorised to prepare technical documentation:

Łukasz Leonhard
LOCKHARD Sp. z o. o.
ul. Ostrowska 74A
63-410 Gorzyce Wielkie

Gorzyce Wielkie, date
.....

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1.7. Intended use of the man lift

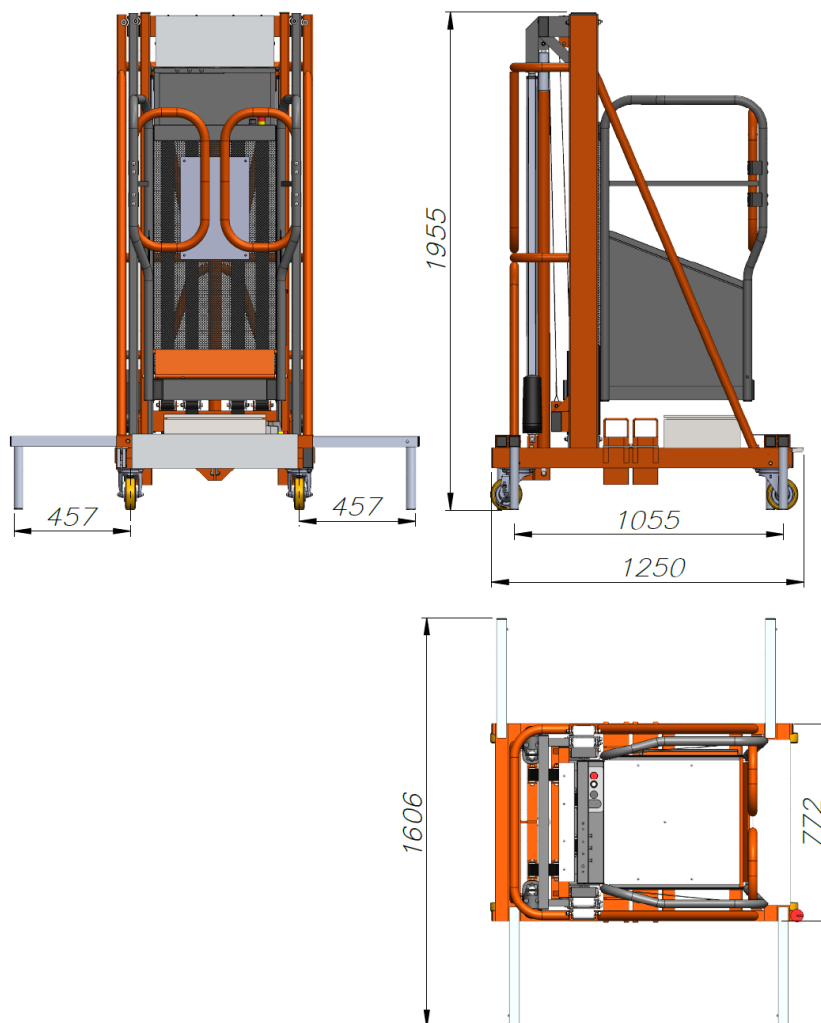
Up Lift 6 is intended only for vertical lifting of people to work position where they work from the basket, assuming that these people enter and leave the basket in its lower position.

1.8. Technical data

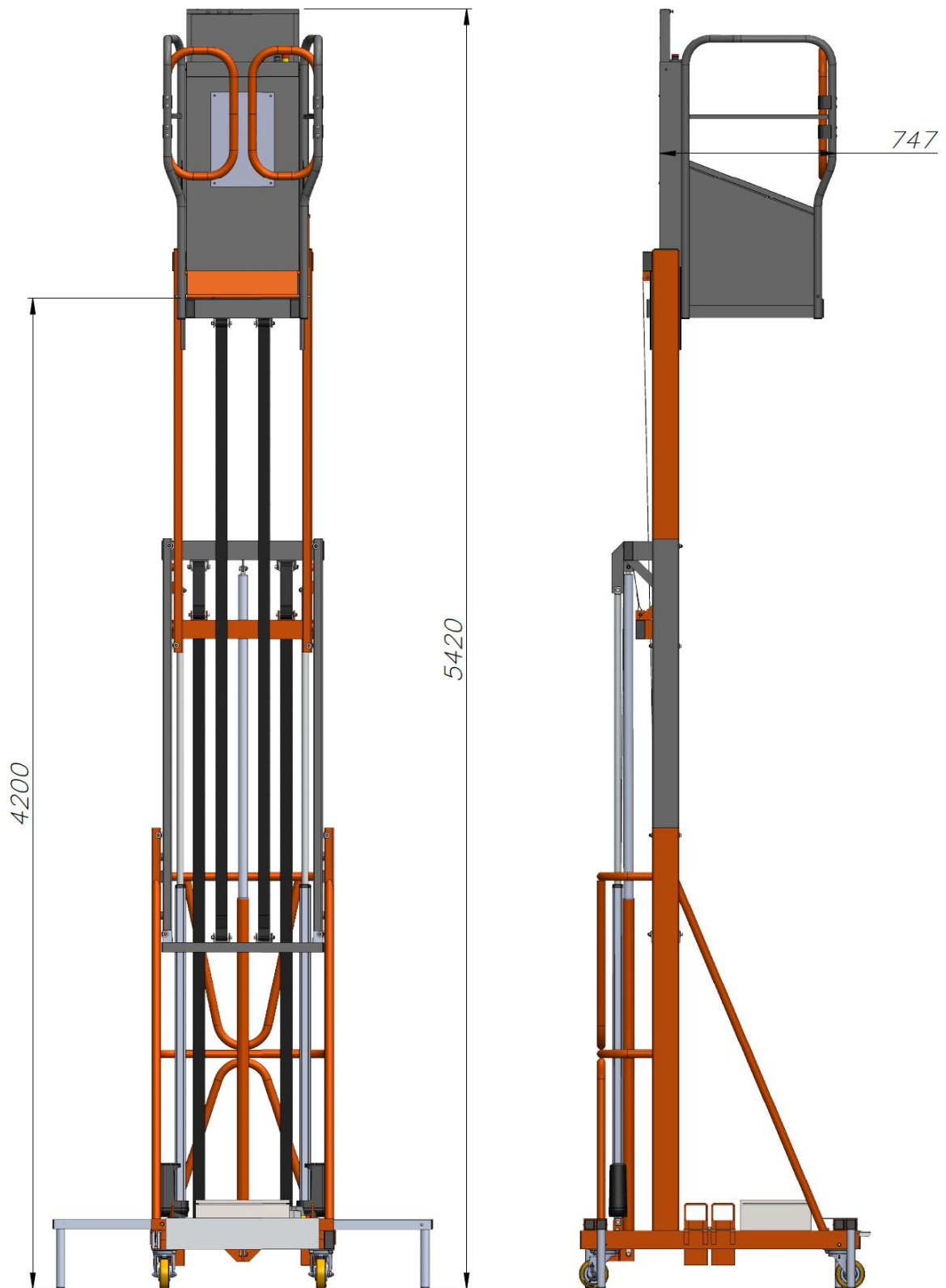
Maximum load in the basket	140 kg (1 person + tools)
External dimensions (WxLxH)	772x1250x1955 mm
Working surface dimensions (WxL)	480x690 mm
Maximum lifting speed	10 m/min. (at full battery power)
Maximum lifting height	4.2 m
The weight of the lift	130 kg + 60 kg ballast
Supply voltage	12 V DC
Battery capacity	39 Ah
Battery voltage	12 V
Temperature of use	-15°C to +40°C
Noise level	Does not exceed 70 dB

2. CONSTRUCTION OF THE LIFT

2.1. Drawing



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2.2. Base

The base with the load-bearing structure of the lift is made of welded steel hollow sections. The lift is moved by wheels with a foot brake. A 60 kg ballast and side stabilizers are used to ensure the lift's stability.

2.3. Power unit

Up Lift 6 basket is lifted by means of 2 electric actuators, which are permanently attached to the support frame of the base on one side and to the movable masts on the other side. The LA36 electric actuators are assisted by gas springs. The basket is lifted through a system of masts and belt slings.

2.4. Control panel

The control panel is located in the basket. There is a key switch on the panel (Fig. 1/2) and three buttons - a red emergency stop button (Fig. 1/1) and two buttons used to control movements (Fig. 1/3).



Figure 1. Control panel

2.5. Electrical box

At the base of the lift an electric box is located. Access to the box is possible after lifting the basket. The box contains the following items:

- emergency lowering button (Fig. 3/1);
- two 12 V/39 Ah batteries (Fig. 3/2);
- battery charger 110 V/230 V AC -> 12 V DC/10 A (Fig. 3/3);
- 110 V/230 V AC cable with a plug - (Fig. 3/4).
- emergency stop button (Fig. 2).



Figure 2. Emergency button



Figure 3. Electrical box

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3. OPERATING MANUAL

The lift may only be operated by a properly trained and authorized operator who has read and understood these instructions and complies with the regulations on the proper use of the lifts in the user's country.



The user is responsible for the safe installation and operation of the UP Lift 6.

3.1. Preparation

Before starting operation, the lift must be checked for technical condition and possible defects. It is necessary to inspect the supporting structure, belts and the power unit. If any faults are detected, do not use the lift. Make sure that all control and protection devices are ready for operation and check the voltage on the digital display. If the voltage is lower than 10.5 V, charge the batteries.

3.1.1. Environmental control

In the area where the lift is to be operated, the surroundings should be checked for possible hazards, e.g. For electrical cables, ruins, rubble, excavations, mobile cranes, pedestrian traffic, vehicle or machinery traffic, etc. in the vicinity of the lift. Gradient in the area should not exceed 0. 5°. If there is a risk of contact of the lift with power lines, voltage in the lines should be cut off. The work position where the lift is operated must be protected against access by unauthorised persons.

3.1.2. Installation of ballasts

In order to use the man lift properly and safely, ballasts on the base must be installed (Fig. 4). Properly placed ballasts should be secured with a bolted plate. The wrench needed to tighten the bolts is in the junction box. The total weight of the ballast is **60 kg** (4x 15 kg/33 lbs). When the work is finished, it is not necessary to remove the ballasts.



Figure 4. Ballast installation



IMPORTANT!
Ballasts must be fitted always when the lift is operated!

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3.1.3. Moving the Up Lift 6

The lift should be pushed manually on the smooth, horizontal, solid and free of obstacles ground. Exercise extreme caution when moving the lift. The lift can be moved with the ballasts attached. After reaching the target place of work, lock the wheels with the foot brake - the wheels can be locked by pressing the foot lock (Fig. 5). To unlock the wheels, lift the wheel lock with your foot (Fig. 6).



Figure 5. Wheel lock
Press the pedal to lock



Figure 6. Unlocking the wheels
Release the pedal to unlock the wheels

A spirit level is installed on the base to control the horizontal position of the lift. (Fig. 7).



Figure 7. Spirit level

3.1.4. Stabiliser feet

To ensure safe operation of Up Lift 6, it is absolutely necessary to unfold the side stabiliser feet as described below:

- Press in the locking pin (Fig. 8 and 9) and pull out the feet from the socket (Fig. 10).

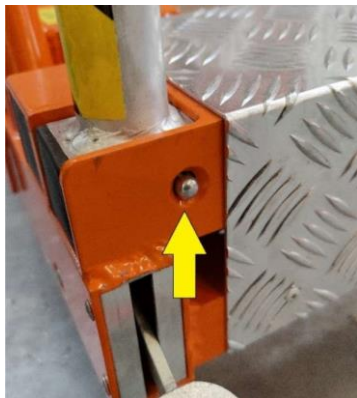


Figure 8. Locking pin

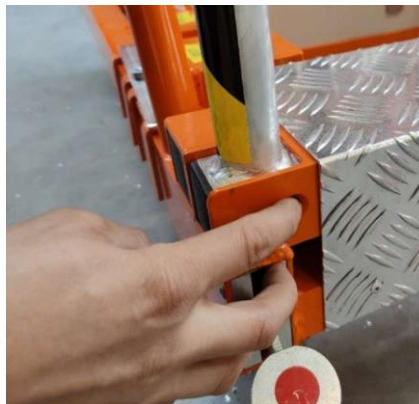


Figure 9. Pressed locking pin

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- rotate the stabiliser feet 180°
- insert the rotated stabiliser feet into the socket (Fig. 11 and 12) until it locks on the hole (Fig. 13).



Figure 10. Pulling out the feet from the socket



Figure 11. Inserting the rotated stabiliser feet

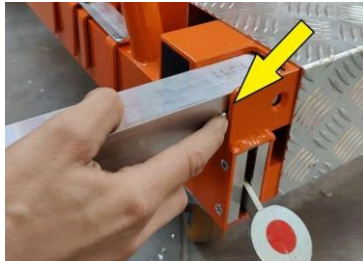


Figure 12. Inserting the rotated stabiliser feet

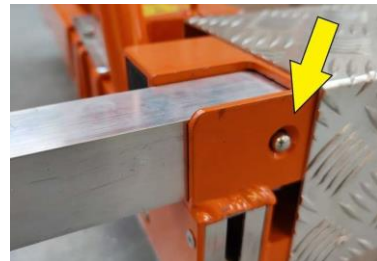


Figure 13. Locked locking pin

- perform the above steps for all four feet.



Figure 14. Unfolded the side stabiliser feet



IMPORTANT!
Stabilisers must be fitted every time
the lift is operated!

- using the lift at a distance of less than 30 cm from the wall is allowed after fitting the stabiliser feet on one side (Fig. 15).

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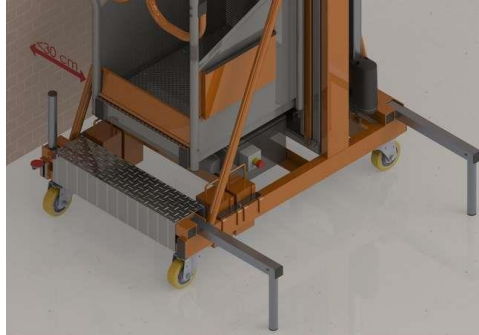


Figure 15. One-sided unfolding the stabiliser feet



IMPORTANT!

It is forbidden to use Up Lift 6 without properly installed ballasts and stabilisers

3.2. Operation of the lift

The lift can be operated by one person, the control position is in the basket and the operator may enter or leave the basket only when it is lowered.

3.2.1. Control panel operation

- make sure the emergency stop buttons are not activated.
- turn the key to "ON" position (Fig. 1/2).
- control the basket movement using the "UP" or "DOWN" buttons marked with arrows (Fig. 1/3). In order to move the basket up and down, the button must be kept pressed.



During lifting or lowering of the basket, operator and materials must stay within the outline of the basket floor.

If any hazards occur, stop the basket movement with the emergency stop buttons (Fig. 1/1 and Fig. 2) - after pressing the red button, the lift stops. The button must be turned to reactivate the power unit.

The up/down button cover protects the button against contamination. Replace the cover if damaged!

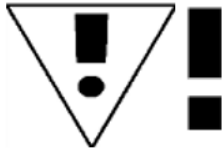
3.2.2. Completion of work

After completing the work, it is necessary to:

- lower the basket to the lowest position;
- turn the key in the main switch (Fig. 1/2) to "OFF" position, remove the key from the main switch to prevent unauthorised persons from using the lift;
- step out of the basket,
- fold the stabiliser feet;
- leave the lift in a safe place,
- lock the wheels with the brake,
- connect the battery for charging.

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3.2.3. Removal and reinstallation of batteries



Make sure that the basket is in a position that allows the battery cover to be opened and that no people or material are present in the immediate vicinity.

Up Lift 6 is delivered with the batteries installed. During operation, however, there may be a need to remove and reinstall them:

- raise the basket to a height that allows the electric box cover to be opened - approx. 40 cm;
- open the cover;
- disconnect the battery by removing the XT60 connector (Fig. 16);
- remove the batteries from the box;
- close the cover;
- use the clamp to secure the cover against unintentional opening.



Figure 16. XT60 connector

To reinstall the battery:

- Make sure that the basket is at the right height,
- Put the battery in the box,
- Connect the batteries by connecting the XT60 connector (Fig. 16).

3.2.4. Charging the batteries

To charge the battery:

- connect the wire to the electric box;
- connect the cable to the mains supply 110/230 VAC;
- extension cords can be used for this connection according to EN IEC 61316:2021;
- while charging, the indicator lamp on the charger lights up red (Fig. 17/1). The indicator lamp will turn green when the battery is fully charged (Fig. 17/2);
- Once the battery is charged, disconnect the cable from the mains and the electrical box;



Figure 17. Battery charger

More information on the charger is given in Chapter 9.

In the event of a longer period of storage of the battery, the lift should be charged at least once a month for at least 12 hours.

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3.2.5. Overload

Up Lift 6 is equipped with a system preventing the basket from being overloaded. If the basket cannot move upwards, it means that the basket has been overloaded and the weight should be reduced. Overload is signalled by an acoustic signal. In the event of severe overload, the fuse in the switch box may need to be replaced.

3.2.6. Emergency lowering

If the operator cannot lower the basket due to a failure of the control system or indisposition of the operator, emergency lowering of the basket can be activated. Up Lift 6 is equipped with two emergency lowering systems, the operation of which requires the intervention of an outside person who will be able to bring the basket to its lower position by means of:

- a) **electric emergency lowering system** - the emergency exit button is located under the cover of the electric box (Fig. 18). To lower the basket, press and hold the button. The button will not work if one of the Emergency Stop buttons is activated. Use of the electric lowering system in situations other than emergency situations and simultaneous use of the emergency lowering system with the main control system is forbidden and may lead to mechanical failure of the lift.



Figure 18. Electric lowering system



Figure 19. Mechanical lowering system

- b) **emergency lowering system** - with the bolts at the bottom of the actuators (Fig. 19). To lower mechanically, remove the cover and turn the bolts with a 6 mm Allen key. Turn both bolts evenly.

If the basket is blocked in the supporting structure, do not take any actions to restart the lift. Supervisors should decide on how to safely evacuate the operator from the bin.

In the event of a mechanical or electrical failure, please contact an authorized service technician of Lockhard Sp. z o.o.



Always follow the safety rules in this manual.

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4. RESIDUAL RISK

Table 1. Potential dangers of improper use of the Up Lift 6.

Danger!	Risk of injury
Risk of crushing due to lack of space	There is a risk of crushing if unauthorised persons are under the lowering basket. The risk arises in the event of breaking the ban on access to the basket.
Risk of crushing and abrasion of the skin	Risk of injury caused by extending a limb beyond the basket floor outline and leaning out during the vertical movement of the basket.
Lack of personal protective equipment	If personal protective equipment is not used, bodily injuries may occur, e.g. abrasions, cuts.
Human errors	Human errors may occur if the operating manual is not followed or due to the lack of proper training, which may result in loss of life or health, damage to the machine and all related costs.
Assembly errors	Assembly errors may occur if the assembly instructions are not followed, which may result in loss of life or health, damage to the machine and improper functioning of the machine.
Falling or thrown objects	During working in a basket, the employee is obliged to secure the materials stored in it.
Loss of stability/tipping over	Failure to follow the operating manual may result in loss of stability and overturning of the machine, which may result in damage to the machine, personal injury or death.
Slipping, tripping or falling people	The risk of slipping may occur in the event of poor maintenance of the basket and when the floor surface is slippery due to dirt. A tripping hazard can occur if the materials are not positioned correctly in the basket.
No maintenance	May result in a complete failure, which can cause injury to the operator, loss of health, damage to the environment and property.
Operation by an unauthorised person	Risk of injury may occur if an unauthorised and untrained person is in the basket or in its immediate vicinity.
Overload may result in overturning	When the basket is overloaded, stability can be lost.
Caused by difficult assembly/use/maintenance conditions. Use of inappropriate parts.	In the case of difficult conditions for assembly, disassembly, use and maintenance, human errors may occur, e.g. incorrect assembly, incorrect selection of parts, poor maintenance, too much hurry in the performed works.

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Instructions for recognition and rectification of failure and restart.

Table 2. Probable causes of failures of Up Lift 6 and remedies

Failure	Probable cause	Remedies
Stopping the basket while it is moving	Overloaded basket (burned fuse)	Check the basket load, reduce load, replace fuse.
	Battery discharged	Drive to the lower position, replace or recharge the battery
	Contamination in the "UP-DOWN" button	Replace the button, blow out the buttons with compressed air
	Electrical actuator cable damaged	Fix the cable
	Microcomputer failure	Replace the microcomputer

5. SAFETY GUIDELINES

5.1. Using the lift inconsistently with its intended use

When using UP Lift 6 man lift, it is forbidden to:

- Lifting more than one person in the basket;
- Moving the lift with operator in the basket;
- Moving the lift by towing with motor vehicles such as a car, forklift truck, tractor, etc.;
- Working in the basket near energised electrical appliances;
- Using lift in potentially explosive atmospheres;
- Using the lift as a crane;
- Using the lift as a supporting structure for hanging manual or mechanical winches;
- Standing on the basket's handrails or other elements out into the basket, e.g. a ladder, toolbox, etc.;
- Putting platforms between the lift and another structures (buildings, scaffolding, etc.);
- Resting objects against the structure of the lift during operation;
- Using a lift that is not serviced and has not passed the technical inspection;
- Simultaneous using the control panel and the emergency lowering system;
- Leaving and using a lift during rainfall and wind;
- Lowering the basket if there are bystanders or any obstacles under it;
- Horseplay while using Up Lift 6;
- Lowering a stuck basket;
- Using Up Lift 6 with open gate;
- Dragging wires, ropes etc. from the floor to the basket.
- Raising the basket when transporting the lift.

5.2. Additional rules

- Depending on the type of work performed with the lift, use personal protective equipment: work clothes and the equipment to protect your head, eyesight, hearing and limbs.
- When operating Up Lift 6 do not wear loose clothes, scarves, jewellery, etc.
- **UP Lift 6** is not equipped with its own lighting, therefore the user should ensure proper lighting of the workplace from an external light source.

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6. STORAGE AND TRANSPORT

Up Lift 6 should be stored in rooms with paved floors, adequately protected against rain and snow. Avoid dust, grease or other contamination. The battery should be stored at a positive temperature in accordance with the operation and maintenance manual.

7. MAINTENANCE

7.1. Definitions

Maintenance man - a person duly authorised to carry out maintenance duties on the lifts in accordance with the regulations in force in the user's country. In Poland – a person authorised by the Office of Technical Inspection to maintain handling equipment in P. Category (Mobile Platforms).

Service technician - is a person who has been properly trained by the manufacturer of Up Lift 6. Periodic replacement of components or ad hoc repairs of the lift may be performed by the manufacturer's service or service units authorised by the manufacturer.

7.2. Maintenance and inspection schedule

Maintenance inspections should be performed every 90 days by an authorised operator. The environment in which the lift is operated and the frequency of use may affect the maintenance schedule.

List of inspection or maintenance activities:

1. Visual inspection of the superstructure;
2. Belts inspection;
3. Functional check
4. Cleaning, lubrication of mechanical parts;
5. Replacement of illegible stickers and instructions;
6. Checking the electrical system. Cables, connections and insulation
7. Battery connection check

7.3. Maintenance inspections - additional remarks

The purpose of the inspection is to check:

- The technical condition of the drive mechanisms, brake systems, load-bearing structure, in particular welded joints,
- The assembly of the belts, gas springs and the actuator. Operation of safety and emergency stop systems. Button operation.

The maintenance man is obliged to:

- Log the maintenance of the Up Lift 6 lift in the machine log book with the date and signature confirming the result of the inspection and the scope of the activities performed.
- In the event of irregularities, the maintenance man as the person responsible for the Up Lift 6 makes a decision about the need to take the lift out of service.

7.4. Ad hoc and service inspections.

Occasional inspections of the lift should be performed after a break in operation lasting longer than 2 weeks (when the lift is fully assembled but not in use). The operator is responsible for performing ad hoc inspections. The results of ad hoc inspections should be recorded in the Up Lift 6 log book by the persons performing the inspection.

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Identified faults should be addressed right after inspection.

Annual inspection of the lift is to be carried out by a body authorised by the manufacturer.

7.5. Guidelines for inspections

In order to carry out an inspection, check the following:

- Basket, all suspension points, rollers, belts and screws;
- Side stabiliser feet;
- Handrails and gates (must close automatically);
- Wheels and wheel brakes;
- Technical condition of individual parts; pay attention to:
 - Cracks in the structure (especially in welded areas);
 - Distortions and fractures;
- Control panel:
 - Emergency stop button;
 - Operation of the buttons;
 - Key switch;
- Lifting belts - mechanical damage to the belts is unacceptable (must be replaced immediately).
- Stickers and information on the lift.

Static test:

- Place the nominal load in the basket - 140 kg. Raise the basket to a height of about 1m;
- Measure the distance between the ground and the lower edge of the basket;
- Leave the basket in this position for approx. 15 min.;
- Measure the distance again after the required time;
- Permissible lowering of the basket is - 5 mm;

7.6. How to replace parts

After a certain period of operation, the following parts must be replaced.

Table 3. Replacement of parts

Part	Operating time
Electric actuator	5 years or 18.5 thousand cycles at full load (25 000 at 80% load)
Carrying belts	3 years
Wheels	5 years or after 2000 operating hours
Rollers (tables 12-16, items 18, 19, 22)	5 years or after 1000 operating hours

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7.6.1. Spare parts list

Lp.	PICTURE	NAME	ARTICLE NO.	DIMENSIONS	WEIGHT
1.		Electric actuator, 2600N	EA2600N	20 x 10 x 160-280 cm	13 kg
2.		Electric actuator controller	MSCUp		
3.		2000N gas spring (set of two)	GS1500N	300 cm, Ø 50 mm	8 kg
4.		Basket	CUp	65 x 70 x 119 cm	12 kg
5.		Gate (right+left)	DR	35 x 60 x 10 cm	3 kg
6.		Stabiliser	UpSTAB1PART2	68 x 29 x 4 cm	1 kg
7.		Automatic side	AB	47 (50.5) x 10 cm	0.5 kg
8.		Step clamp	CS		
9.		HD wheel Ø 125 mm	WHD	Ø 125 mm	0.75 kg
10.		Battery	BAT	19.5 x 13 x 17.2 cm	10.5 kg
11.		Charger Up Lift 200	ChRUp200		

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12.		Emergency switch electric box	UPELBEB		
13.		Ballast	BT	20 x 15 x 17 cm	15 kg
14.		Electrical box	UpELB	8 x 15 x 25 cm	1 kg
15.		91 mm roller	Rr91	91x25 mm	0.1 kg
16.		30 mm roller for mast and basket	Rr30	DN 30 x 22 mm	
17.		Roll of 40mm mast	Rr40	40x80 mm	
18.		XT60 connector	XT60		0.006 kg
19.		Parts for 2 belts	Pb		
20.		Belts (2 pieces)	BT	0.3 x 5 x 306 cm	1 kg
21.		80X40 plug	Pg80	80 x 40 x 22 mm	
22.		DN 35 mm plug	Pg35	DN 35 x 20.2 mm	
23.		100X40 plug	Pg100	100 x 40 x 24.5 mm	
24.		40 mm spirit level	SL40	DN 40 mm	
25.		Charger socket	ChS		

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26.		Power cord	WpUp	5 m	
27.		Cable for control panel	WrRCUp	6 m	
28.		Left door spring	SL		
29.		Spring for the right door	SR		
30.		Plastic top hinge for the door	GdT		
31.		Plastic bottom hinge for the door	GdB		
32.		HD pedal	PHd	64 cm	
33.		Cable for HD wheel	DHD		
34.		HD wheel shaft	PHd		
35.		Control panel box	CpC	18 x 7.5 x 6 cm	
36.		Up/Down button	Bud		
37.		Key button	Bk		
38.		Emergency stop	UPEB		
39.		Cover for the Up-Down button	CBud		
40.		Contactor for the Up/Down button	Cud		

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41.		Contactor for the emergency button/Key switch	Cebk		
42.		Control panel	CP	18 x 7.5 x 6 cm	
43.		Main switch	MS		
44.		Main switch with cable	MSw		
45.		Charger belt	BC		
46.		Key	KEYUp		

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8. INSTRUCTIONS FOR THE CHARGER

This manual contains important safety information related to using the ET4-0227 multi-purpose charger:

- In the event of a voltage drop, an acoustic signal will inform about the need to recharge the batteries.
- The charger is permanently installed in the box and properly connected to the batteries.
- The nominal charging current for 12 V batteries is 10 A.
- The charger is intended only for charging 12 V lead, AGM and gel batteries. Do not charge batteries of any other type.
- If the charger is disconnected or damaged due to a strong short circuit, immediately disconnect the charger from the battery.
- The necessary repairs should be carried out by qualified personnel. Improper installation may cause fire and/or short circuit.
- Before cleaning the housing, always disconnect the charger from the battery and unplug it from the mains.
- Follow the recommended battery charging procedures.
- The battery generates hydrogen and oxygen during charging. Such a combination creates an explosive mixture. Provide sufficient ventilation and avoid source of ignition such as sparks, smoking, etc.
- The liquid inside the batteries is highly corrosive. In case of contact with skin or eyes, rinse the area with clean water and seek medical attention immediately.
- Lead batteries store a lot of energy. A short circuit in the battery will cause the battery to try to release this energy immediately, which may lead to a fire or injury. Make sure that metal objects (or other conductive material) do not touch the + and - poles at the same time.

8.1. Charger specifications

Charger type:	12 VDC, 10 A
Input voltage:	115-260 VAC, 50 Hz
Output voltage:	12 V
Capacity:	>75%
Charging voltage:	4.4 V $\pm$ 0.25 V or 13.6 V $\pm$ 0.25 V
Charging current:	10 A $\pm$ 10% or 8.0 A $\pm$ 10% or 4.0 A $\pm$ 10%
Protective conductor current:	<5 mA
Fluctuations:	Max. 150 mV, 0.3 A
Air temperature:	- 20 °C - 40 °C/ -4 °F - 104 °F, performance is reduced at higher temperatures
BATTERY TYPES:	12 V lead-acid batteries (WET, MF, AGM & VRLA)
Ingress protection:	IP65

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9. GUARANTEE POLICY

UP Lift 6 is covered by a one-year manufacturer's guarantee.

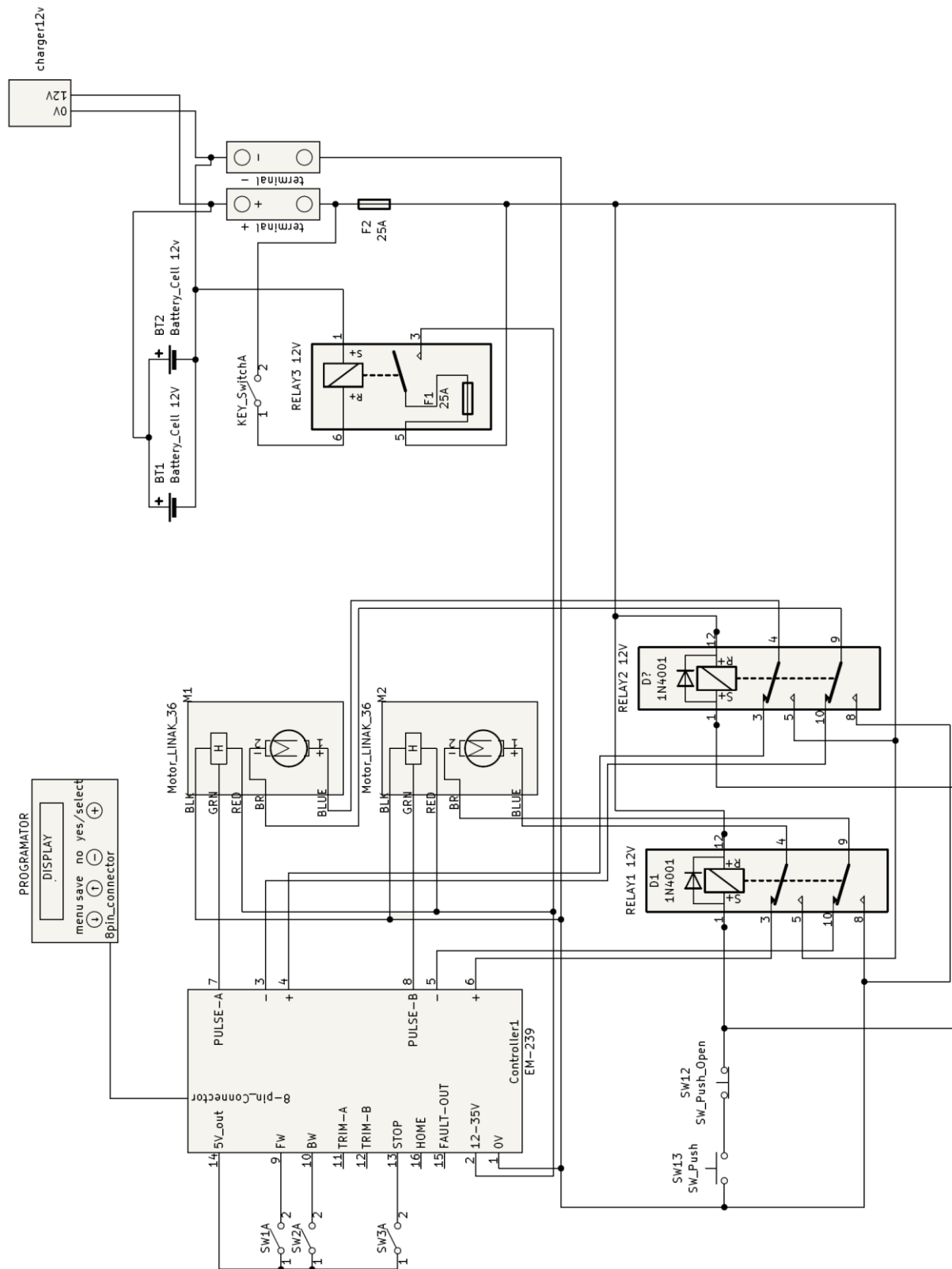
The "General LOCKHARD Sp. z o. o. sales and delivery" rules apply.

Guarantee and statutory warranty claims for personal and material damage are excluded, if it occurred due to reasons such as:

- Using the Up Lift 6 inconsistently with the operating instructions.
- Incorrect installation, start-up, operation or insufficient servicing of the Up Lift 6.
- Using the UP Lift 6 with damaged, defective or incorrectly installed safety devices.
- Failure to follow the instructions given in the operating manual regarding transport, assembly, start-up, use, servicing, equipment and storage of the Up Lift 6.
- Making changes to the Up Lift 6 structure.
- Repair of faults by unauthorised persons.
- Damage caused by weather conditions.
- Damage caused by high external forces.
- Lack of annual inspection carried out by a service technician and lack of a sticker confirming this fact.
- Lack of service logbook with history of the lift as well as history of inspections and servicing carried out.

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10. CONTROL CIRCUIT DIAGRAM



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11. OPERATION BOOK – SAMPLE

In order to comply with the applicable legal regulations, an Operation book for the Elevator Up Lift 6 should be maintained. Please refer to country-specific regulations.

11.1. Up Lift 6 data:

Guarantee Card Number: _____

Product Name: _____

Serial Number: _____

Date of Manufacture: _____

Date of Sale: _____

Manufacturer: LOCKHARD Sp. z o.o

The "General LOCKHARD Sp. z o. o. sales and delivery" rules apply.

Supplier's stamp

Manufacturer's stamp

Name and Address of the Owner:

Name: _____

Addressee: _____

Operator: _____

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11.2. Inspection book

Form - Inspection of Lift, Type:

Serial Number:

Inspection Number:

Number of Hours:

Date:

Conducted by:

Address:

Contact:

Work Performed:

Date of next Inspection:

Form - Inspection of Lift, Type:

Serial number:

Inspection Number:

Number of Hours:

Date:

Conducted by:

Address:

Contact:

Work Performed:

Date of next Inspection:

Form - Inspection of Lift, Type:

Serial Number:

Inspection Number:

Number of Hours:

Date:

Conducted by:

Address:

Contact:

Work Performed:

Date of next Inspection:

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Form - Inspection of Lift, Type:

Serial Number:

Inspection Number:

Number of Hours:

Date:

Conducted by:

Address:

Contact:

Work Performed:

Date of next Inspection:

Form - Inspection of Lift, Type:

Serial number:

Inspection Number:

Number of Hours:

Date:

Conducted by:

Address:

Contact:

Work Performed:

Date of next Inspection:

Form - Inspection of Lift, Type:

Serial number:

Inspection Number:

Number of Hours:

Date:

Conducted by:

Address:

Contact:

Work Performed:

Date of next Inspection:

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12. COMPLAINT FORM

Complaint

Owner: _____

Address: _____

Guarantee Card number: _____

Product Type and Serial Number: _____

Purchase Date: _____

Date of Detection of Defect / Hours Counter: _____

Short Description of the Defect:

Date and Place: _____ Signature: _____

Complaint

Owner: _____

Address: _____

Guarantee Card number: _____

Product Type and Serial Number: _____

Purchase Date: _____

Date of Detection of Defect / Hours Counter: _____

Short Description of the Defect:

Date and Place: _____ Signature: _____